

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S83	311	((differenc\$4 or offset) with (predict\$4)) same (compress\$4) and (vector same (differenc\$4 or offset\$4) same (order\$4 or reorder\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/19 10:43
S88	453	((differenc\$4 or offset) with (predict\$4)) and (compress\$4) and ("zig-zag" or (zig near zag) same (travers\$4 or process\$4 or search\$4 or analy\$4) same (surface or lattice or mesh or polygon\$4) and animat\$4 and ("3-d" or "3D" or ((three or "3") near dimension\$4)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/19 10:57
S89	134	((differenc\$4 or offset) with (predict\$4)) same (compress\$4) and ("zig-zag" or (zig near zag) same (travers\$4 or process\$4 or search\$4 or analy\$4) same (surface or lattice or mesh or polygon\$4) and animat\$4 and ("3-d" or "3D" or ((three or "3") near dimension\$4)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/19 10:56
S90	453	((differenc\$4 or offset) with (predict\$4)) and (compress\$4) and ("zig-zag" or (zig near zag) with (travers\$4 or process\$4 or search\$4 or analy\$4) same (surface or lattice or mesh or polygon\$4) and animat\$4 and ("3-d" or "3D" or ((three or "3") near dimension\$4)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/19 10:57
S95	10	(US-20030215011-\$).did. or (US-6256418-\$ or US-6577310-\$ or US-6606095-\$ or US-5428726-\$ or US-6831637-\$ or US-5793371-\$ or US-6512515-\$ or US-6628277-\$ or US-6167159-\$).did.	US-PGPUB; USPAT	OR	ON	2007/06/20 08:35
S96	6	(triangl\$4 same (compres\$4 or encod\$4 or decod\$4)) and S95	US-PGPUB; USPAT	OR	ON	2007/06/20 08:36
S97	55	((SCOTT) near2 (PETERSON)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/20 11:25
S99	85879	("345").CLAS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/06/20 11:32
S100	0	S97 and S99	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/20 12:14
S101	0	((reorder\$4 or (re-order\$4) or reorganiz\$4 or relist\$4) same (vector with (offset or differenc\$4 or predic\$4)) same axis same (contiguous\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/20 13:18
S103	0	((reorder\$4 or (re-order\$4) or reorganiz\$4 or relist\$4) same (vector same (offset or differenc\$4 or predic\$4)) same axis same (contiguous\$4 or adjacen\$4 or "next to" or "near"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/20 13:17

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S105	1	((reorder\$4 or (re-order\$4) or reorganiz\$4 or relist\$4) and (vector same (offset or differenc\$4 or predic\$4)) and axis and (contiguous\$4 or adjacen\$4 or "next to" or "near")) and ((group\$4 or collect\$4) same (coordinat\$4 or vertex or point or vertice) same (tuple))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/20 13:25
S106	0	((reorder\$4 or (re-order\$4) or reorganiz\$4 or relist\$4) and (vector same (offset or differenc\$4 or predic\$4)) same axis same (contiguous\$4))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/20 13:18
S107	349	((predict\$4 or differenc\$4 or deviat\$4) with (vertex or vertic\$4 or point or pixel)) same (compress\$4) and S99	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/20 13:30
S108	1515	((predict\$4 or differenc\$4 or deviat\$4) with (vertex or vertic\$4 or point or pixel)) and (compress\$4) and S99 and (animat\$4 or frame) and (offset or differenc\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/20 13:31
S109	64	((predict\$4 or differenc\$4 or deviat\$4) with (vertex or vertic\$4 or point or pixel)) same (compress\$4) same (animat\$4 or frame) same (offset or differenc\$4)) and S99	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/20 13:32
S110	1413	(345/473).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/06/20 13:32
S111	1067	(345/420).CCLS.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	OFF	2007/06/20 13:33
S112	71	S108 and S110	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/20 13:33
S113	53	S108 and S111	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/20 13:33
S114	4	(relative near (coordinat\$4 or vertex or vertice)) and S112	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/20 13:33
S115	10	(relative near (coordinat\$4 or vertex or vertice)) and S113	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/20 13:34

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S116	5	((differenc\$4 or offset) near (encod\$4)) and S113	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/20 13:34
S117	2	((differenc\$4 or offset) near (encod\$4)) and S112	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2007/06/20 13:34



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Z Karni, C Gotsman - Computers & Graphics, 2004 - wassist.cs.technion.ac.il
 ... in Section 5) to **predict** each **mesh** vertex position in ... in the two preceding **frames**
 (we **predict** each coordinate ... efficiency was doubled for all the three **models**. ...
 Cited by 35 - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

[Compression of time-dependent geometry](#) - all 2 versions »

JE Lengyel - Proceedings of the 1999 symposium on Interactive 3D graphics, 1999 - portal.acm.org
 ... that column sorting and column **prediction** were not ... of starting with the parametrized
model, the source of ... of 14Mbytes (= 400 **frames** * 3030 **vertices** * 3 coords ...
 Cited by 62 - [Related Articles](#) - [Web Search](#)

[Face and 2-D mesh animation in MPEG-4](#) - all 7 versions »

AM Tekalp, J Ostermann - Signal Processing: Image Communication, 2000 - Elsevier
 ... generator computes for each affected vertex a 3D- displacement ... reads the VRML "le
 of the **model** and the ... previously decoded value FAP Π . The **prediction** error e ...
 Cited by 92 - [Related Articles](#) - [Web Search](#)

[Representing Animations by Principal Components](#) - all 10 versions »

M Alexa, W Muller - Computer Graphics Forum, 2000 - Blackwell Synergy
 ... **Prediction-based compression** approaches have been extended for ... we make sure that
 same **vertices** represent common features in the source and the target **model**. ...
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[Analyzing facial expressions for virtual conferencing](#) - all 13 versions »

P Eisert, B Girod - Computer Graphics and Applications, IEEE, 1998 - ieeeexplore.ieee.org
 ... **model** contains a table describing how the **mesh's** con ... the dependencies between the
 FAPs and the **model's** 3D ... Three **vertices** form a triangle, and the 3D motion ...
 Cited by 107 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Geometry videos: a new representation for 3D animations](#) - all 13 versions »

HM Briceño, PV Sander, L McMillan, S Gortler, H ... - ... ACM SIGGRAPH/Eurographics symposium on
 Computer animation, 2003 - portal.acm.org
 ... the angles between adjacent faces to **predict** the location of ... one can then store fixed
 per-vertex attributes (eg ... if the features of the **model** change drastically ...
 Cited by 42 - [Related Articles](#) - [Web Search](#)

[Shape compression using spherical geometry images](#) - all 4 versions »

H Hoppe, E Praun - Symposium on Multiresolution in Geometric Modeling. ..., 2003 - Springer
 ... the **vertices** of these faces are all "even" **vertices**. ... Second, they help the **prediction**
 for the samples near ... horse **models**, and Headus for the skull **model**. ...
 Cited by 22 - [Related Articles](#) - [Web Search](#)

[Skinning mesh animations](#) - all 8 versions »

DL James, CD Twigg - International Conference on Computer Graphics and ..., 2005 - portal.acm.org
 ... We use a simple but effective **model** selection approach ... picks the best β bones for
 vertex i that ... errors when used to individually **predict** deformed positions. ...



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1 [Facial modeling and animation](#)



Jörg Haber, Demetri Terzopoulos

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

 Full text available: pdf(18.15 MB) Additional Information: [full citation](#), [abstract](#)

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

2 [Geometric modeling based on triangle meshes: Geometric modeling based on triangle meshes](#)



Mario Botsch, Mark Pauly, Christian Rossli, Stephan Bischoff, Leif Kobbelt

July 2006 **ACM SIGGRAPH 2006 Courses SIGGRAPH '06**

Publisher: ACM Press

 Full text available: pdf(24.22 MB) Additional Information: [full citation](#), [references](#)

3 [Motion editing and compression: Wavelet compression of parametrically coherent mesh sequences](#)

Igor Guskov, Andrei Khodakovsky

August 2004 **Proceedings of the 2004 ACM SIGGRAPH/Eurographics symposium on Computer animation SCA '04**

Publisher: Eurographics Association

 Full text available: pdf(2.36 MB) Additional Information: [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

We introduce an efficient compression method for animated sequences of irregular meshes of the same connectivity. Our approach is to transform the original input meshes with an anisotropic wavelet transform running on top of a progressive mesh hierarchy, and progressively encode the resulting wavelet details. For temporally coherent mesh sequences we get additional improvement by encoding the differences of the wavelet coefficients. The resulting compression scheme is scalable, efficient, and ...

4

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Oliver Deussen, David S. Ebert, Ron Fedkiw, F. Kenton Musgrave, Przemyslaw Prusinkiewicz,



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» Key

IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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- ☐ 1. **Discrete minimum entropy quantization**
 Gormish, M.J.; Gill, J.T.;
[Image Processing, IEEE Transactions on](#)
 Volume 4, Issue 9, Sept. 1995 Page(s):1314 - 1317
 Digital Object Identifier 10.1109/83.413176
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 Marshall, T.; Challis, R.E.; Holmes, A.K.; Tebbutt, J.S.;
[Ultrasonics, Ferroelectrics and Frequency Control, IEEE Transactions on](#)
 Volume 49, Issue 11, Nov. 2002 Page(s):1583 - 1591
 Digital Object Identifier 10.1109/TUFFC.2002.1049740
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- ☐ 3. **KANDINSKY: a PIC code for fluid simulations of Penning traps**
 Delzanno, G.L.; Lapenta, G.; Finn, J.M.;
[Plasma Science, IEEE Transactions on](#)
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 Digital Object Identifier 10.1109/TPS.2002.1003910
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- ☐ 4. **A Model for the Electronic Representation of Bank Checks**
 Dias, D.; de Queiroz, R.;
[Image Processing, 2006 IEEE International Conference on](#)
 8-11 Oct. 2006 Page(s):461 - 464
 Digital Object Identifier 10.1109/ICIP.2006.312493
[AbstractPlus](#) | Full Text: [PDF\(4220 KB\)](#) IEEE CNF
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- ☐ 5. **Merge-Based Color Quantization and Context Tree Modeling for Compression of Color Quantized Images**
 Podlasov, A.; Franti, P.;
[Image Processing, 2006 IEEE International Conference on](#)
 8-11 Oct. 2006 Page(s):2277 - 2280
 Digital Object Identifier 10.1109/ICIP.2006.312817
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Inventor Name Search Result

Your Search was:

Last Name = PETERSON

First Name = SCOTT

Application#	Patent#	Status	Date Filed	Title	Inventor Name
09478784	6279197	150	01/06/2000	DUCTWORK CLEANING SYSTEM	PETERSON, SCOTT
09794469	Not Issued	161	02/27/2001	Automated profit recovery	PETERSON, SCOTT
10044072	Not Issued	161	10/26/2001	System for providing localized content information via wireless personal communication devices	PETERSON, SCOTT
10335362	Not Issued	61	12/31/2002	Automated audit process	PETERSON, SCOTT
10463079	7017588	150	06/17/2003	HAIR STYLING DEVICE	PETERSON, SCOTT
10572543	Not Issued	20	11/28/2006	Use Of Chk1 Inhibitors To Control Cell Proliferation	PETERSON, SCOTT
10625973	7162765	150	07/23/2003	SEAL SYSTEM FOR IRRIGATED SCRUBBER MANDREL ASSEMBLY	PETERSON, SCOTT
10721859	Not Issued	71	11/26/2003	Vent cleaning system	PETERSON, SCOTT
10837976	Not Issued	161	05/03/2004	Automatic brake mechanism	PETERSON, SCOTT
10851871	7143909	150	05/21/2004	RECONFIGURABLE METERED MATERIAL DISPENSER	PETERSON, SCOTT
11032144	Not Issued	71	01/11/2005	Vent cleaning system	PETERSON, SCOTT
11392897	Not Issued	30	03/29/2006	Food rack	PETERSON, SCOTT
29035063	D365527	150	02/17/1995	HAND-HELD MEASUREMENT DEVICE WITH GRIP	PETERSON, SCOTT
29035065	D365996	150	02/17/1995	HAND-HELD MEASUREMNT DEVICE WITH GRIP	PETERSON, SCOTT
29037662	Not Issued	161	04/17/1995	BOOT COVER FOR AN ELECTRONIC MEASUREMENT INSTRUMENT	PETERSON, SCOTT
60243776	Not Issued	159	10/26/2000	System for providing localized contact information via wireless personal communication devices	PETERSON, SCOTT